

157196
F-Sanquet Generals

PROJECT STATUS
SEWER INVESTIGATION AND
REHABILITATION

11 September, 1987

The sewer investigation is proceeding according to the plan prepared by P.H. Weis. To date the large collector box, Box E, has been inspected. Line B-E under the TRRA tracks and line H-E, the 30" sewer under the Monsanto siding have been inspected.

Box E appears to be structurally sound and no infiltration was detected. The lining of the box does require moderate rehabilitation. Joints between box E wall tiles are open and numerous tiles in the areas over five feet from the floor have fallen off. From investigations of lines E-B and H-E, it appears that this 1942 vintage box has settled a little.

Line E-B has a four foot plus sag under the TRRA tracks. Numerous broken pipe joints were observed and excessive infiltration is evident. This line appears structurally unsound and irreparable. Box B appears to have also subsided as evidenced by an initial rise in line B-E as it leaves box B.

Line H-E also has a sag but infiltration is minimal. The sag is from about thirty to about sixty feet from Box E. This sag, again, indicates a localized loss of structural integrity. It could, however, be easily replaced. This is a 1932 sewer, box E is 1942 vintage. I suspect the breaks were caused by box E settlement.

The location and type of failures lead me to believe that they are due to the sinking of these heavy, concrete structures and sewers when the saturated sand soil is liquified by the vibration caused from passing trains.

Potential approaches to solving the sewer problems include:

1. Replacing lines per the original plan. (This would be costly, not provide long term support of lines under the tracks, and would create the potential for further box subsidence).

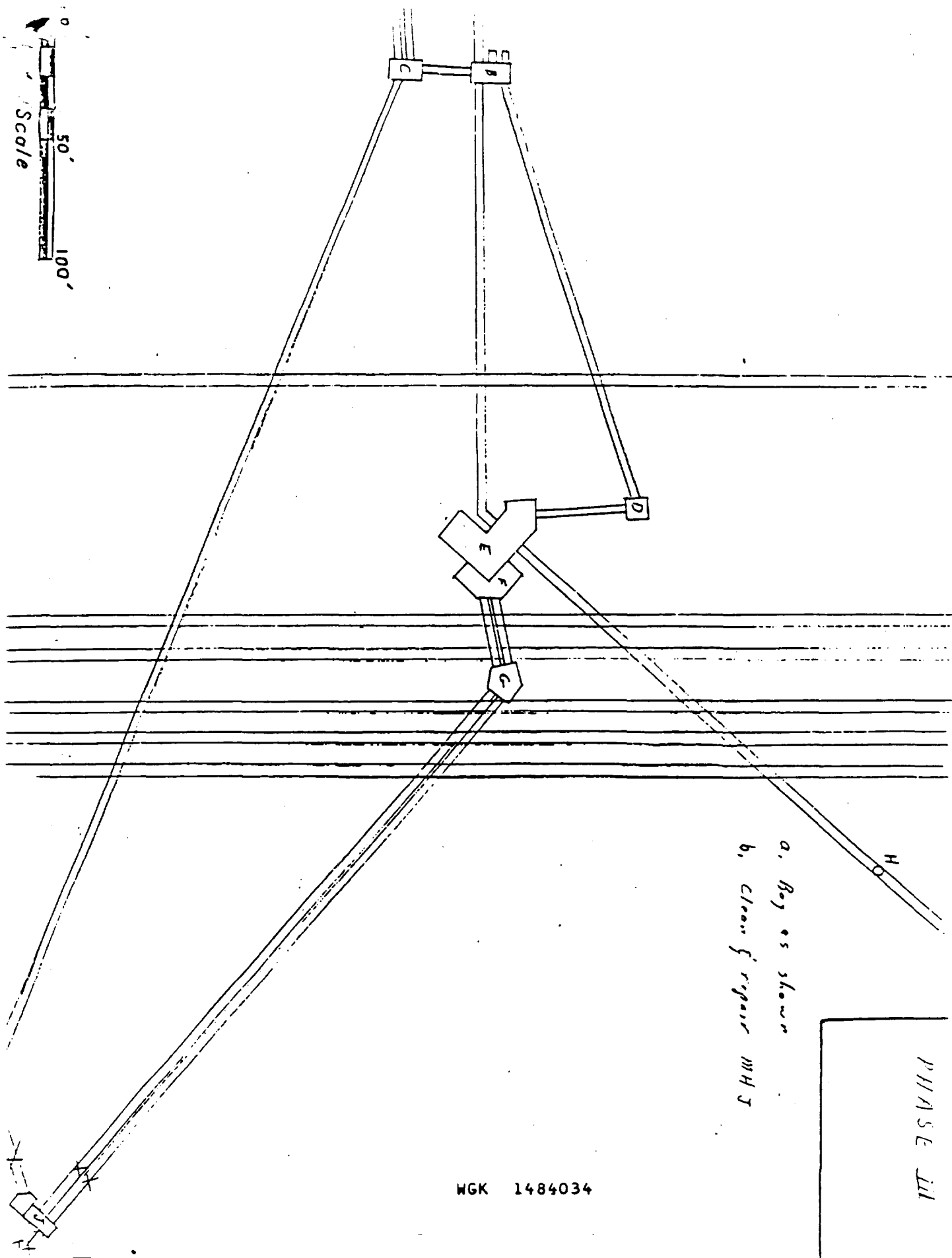
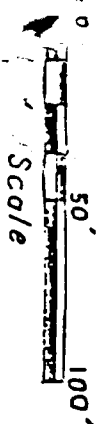
2. Replace line E-B, box B, line H-E and the double 36" pipe under the Monsanto siding from Box G to Box E. Boxes and lines could be supported on drilled piers and a short tunneled section under the TRRA tracks built like a concrete beam.

A decision on the mode of repair needs to be made while the sewer grouting project is in progress.

To date \$ 22.5k has been paid for investigation and \$ 40k is the total obligated.

Brett L. Hanke, P.E.
Association Engineer

WGW 1484033



a. Bay as shown
b. Clean & repair MHS

PHASE III

WGK 1484034